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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/500,841	02/15/2005	Naoyuki Taniguchi	47234-0003	7031
55694 7590 02/19/2008 DRINKER BIDDLE & REATH (DC) 1500 K STREET, N.W. SUITE 1100			EXAMINER	
			CHOWDHURY, IQBAL HOSSAIN	
	N, DC 20005-1209		ART UNIT	PAPER NUMBER
			1652	
			MAIL DATE	DELIVERY MODE
	,		02/19/2008 ·	PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

1	Application No.	Applicant(s)				
	10/500,841	TANIGUCHI ET AL.				
Office Action Summary	Examiner	Art Unit				
·	IQBAL H. CHOWDHURY	1652				
The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply						
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 1 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.  - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.  - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.  - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133).  Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).						
Status						
1) Responsive to communication(s) filed on 31 Oc	ctober 2007.	•				
,	action is non-final.					
·—	Since this application is in condition for allowance except for formal matters, prosecution as to the ments is					
closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.						
Disposition of Claims						
4)⊠ Claim(s) <u>6,7 and 23-30</u> is/are pending in the application.						
4a) Of the above claim(s) 23 is/are withdrawn from consideration.						
5) Claim(s) is/are allowed.						
6)☐ Claim(s) is/are rejected.						
7) Claim(s) is/are objected to.	,— ,, — ,,					
8) Claim(s) 6-7, 24-30 are subject to restriction and/or election requirement.						
Application Papers						
9) The specification is objected to by the Examiner.						
10) ☐ The drawing(s) filed on is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.						
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).						
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).						
11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.						
Priority under 35 U.S.C. § 119						
12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).  a) All b) Some * c) None of:						
1. Certified copies of the priority documents have been received.						
2. Certified copies of the priority documents have been received in Application No						
3. Copies of the certified copies of the priority documents have been received in this National Stage						
application from the International Bureau (PCT Rule 17.2(a)).						
* See the attached detailed Office action for a list of the certified copies not received.						
AMaahaaaa4/a\						
Attachment(s)  1) Notice of References Cited (PTO-892)  4) Interview Summary (PTO-413)						
2) Notice of Draftsperson's Patent Drawing Review (PTO-948) Paper No(s)/Mail Date						
3) Information Disclosure Statement(s) (PTO/SB/08)  Paper No(s)/Mail Date  5) Notice of Informal Patent Application  6) Other:						
Paper No(s)/Mail Date 6) [_] Other:						

Art Unit: 1652

## **DETAILED ACTION**

## Election/Restrictions

Claims 6-7 and 23-30 are pending in the instant Office action.

In response to a previous Office action, a Final action (mailed on April 11, 2007), Applicants have filed an amendment on October 31, 2007, amending claims 6-7 and 23-24, canceling claims 1 and 4, and adding new claims 25-30 is acknowledged. Claim 23 remain withdrawn as drawn to non-elected invention, and claims 2-3, and 8-22 remain cancelled.

A request for continued examination under 37 CFR 1.114, including the fee set forth in 37 CFR 1.17(e), was filed in this application after final rejection. Since this application is eligible for continued examination under 37 CFR 1.114, and the fee set forth in 37 CFR 1.17(e) has been timely paid, the finality of the previous Office action has been withdrawn pursuant to 37 CFR 1.114. Applicant's submission filed on October 31, 2007 has been entered.

Claims 6-7 and 24-30 are under consideration and will be examined herein.

The newly added claims with new limitation raises new issues, i.e. claims 25-30 comprise patentably distinct nucleic acid molecule encoding 2 different peptides. A new supplemental species Election/Restriction requirement is deemed necessary for expedite the prosecution.

This application contains claims directed to more than one species of the generic invention. These species are deemed to lack unity of invention because they are not so linked as to form a single general inventive concept under PCT Rule 13.1.

The species are as follows:

- (A). protein/peptide of SEQ ID NO: 7 or a nucleic acid encoding SEQ ID NO: 7.
- (B). protein/peptide of SEQ ID NO: 11 or a nucleic acid encoding SEQ ID NO: 11.

Application/Control Number: 10/500,841

Art Unit: 1652

As discussed in the previous Office action (Election/Restriction) mailed on 12/16/2005, the polypeptide \$1,6-N-acetylglucosaminyltransferase of Group I, (which is the elected polypeptide or composition comprising said polypeptide) and antibody of the polypeptide Group IV are each unrelated polypeptide with distinct amino acid sequences. The only shared technical feature of these groups is that they all relate to polynucleotide encoding a polypeptide β1,6-Nacetylglucosaminyltransferase. However, this shared technical feature is not a "special technical feature" as defined by PCT Rule 13.2 as it does not define a contribution over the art. According to the search report (PCT form 210), a DNA encoding a polypeptide β1,6-Nacetylglucosaminyltransferase is known in the art (EP585109 A2; Suntory, Ltd., see IDS). Thus, a DNA encoding a polypeptide \$1,6-N-acetylglucosaminyltransferase does not make contribution over the prior art. In addition, Taniguchi et al. ("Implication of Nacetylglucosaminyltransferases III and V in cancer: gene regulation and signaling mechanism", Biochim Biophys Acta, 1999, 1455(2-3): 287-300, Review, see IDS) teach Nacetylglucosaminyltransferases V (GnT-V) play a pivotal role in the processing of N-linked glycoproteins, and are highly involved in cancer progression and metastasis.

The species of (A) and (B) also lack special technical feature because polypeptide β1,6-N-acetylglucosaminyltransferase comprises SEQ ID NO: 7 and 11, which is known in the art and lacks unity of invention.

The species are independent or distinct because claims to the different species recite the mutually exclusive characteristics of such species and lack special technical feature as discussed above.

Application/Control Number: 10/500,841

Art Unit: 1652

Applicant is required under 35 U.S.C. 121 to elect a single disclosed species for prosecution on the merits to which the claims shall be restricted if no generic claim is finally held to be allowable. Currently, claims 6 and 30 are generic.

There is an examination and search burden for these patentably distinct species due to their mutually exclusive characteristics. The species require a different field of search (e.g., searching different classes/subclasses or electronic resources, or employing different search queries); and/or the prior art applicable to one species would not likely be applicable to another species; and/or the species are likely to raise different non-prior art issues under 35 U.S.C. 101 and/or 35 U.S.C. 112, first paragraph.

Applicant is advised that the reply to this requirement to be complete <u>must</u> include (i) an election of a species to be examined even though the requirement may be traversed (37 CFR 1.143) and (ii) identification of the claims encompassing the elected species, including any claims subsequently added. An argument that a claim is allowable or that all claims are generic is considered nonresponsive unless accompanied by an election.

The election of the species may be made with or without traverse. To preserve a right to petition, the election must be made with traverse. If the reply does not distinctly and specifically point out supposed errors in the election of species requirement, the election shall be treated as an election without traverse. Traversal must be presented at the time of election in order to be considered timely. Failure to timely traverse the requirement will result in the loss of right to petition under 37 CFR 1.144. If claims are added after the election, applicant must indicate which of these claims are readable on the elected species.

Application/Control Number: 10/500,841

Art Unit: 1652

Should applicant traverse on the ground that the species are not patentably distinct, applicant should submit evidence or identify such evidence now of record showing the species to be obvious variants or clearly admit on the record that this is the case. In either instance, if the examiner finds one of the species unpatentable over the prior art, the evidence or admission may be used in a rejection under 35 U.S.C. 103(a) of the other species.

Upon the allowance of a generic claim, applicant will be entitled to consideration of claims to additional species which depend from or otherwise require all the limitations of an allowable generic claim as provided by 37 CFR 1.141.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Iqbal Chowdhury whose telephone number is 571-272-8137. The examiner can normally be reached on 8:30-4:30.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Ponnathapu Achutamurthy can be reached on 703-272-0928. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Iqbal H. Chowdhury, Ph.D., Patent Examiner

Art Unit 1652 (Recombinant enzymes)

Sqla Charle

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